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Cumulative Michigan COVID-19 Data

Michigan COVID-19 State Data

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8-18-2020

## 2020-08-18\_MichiganOverview\_COVIDstats

Michigan Department of Health & Human Services

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# Coronavirus

CORONAVIRUS / MICHIGAN DATA

## Michigan Data



### DATA ABOUT PLACES

### LONG TERM CARE FACILITIES

### CORONAVIRUS SYMPTOMS

### CUMULATIVE RECOVERED



**Note on deaths (8/18/20):** Regular reviews of death certificate data maintained in Vital Records reporting systems are conducted by MDHHS staff three times per week. As a part of this process, records that identify COVID-19 infection as a contributing factor to death are compared against all laboratory confirmed cases of COVID-19 in the Michigan Disease Surveillance System (MDSS). If a death certificate is matched to a confirmed COVID-19 case and that record in the MDSS does not indicate the individual died, the MDSS record is updated to indicate the death and the appropriate local health department is notified. These matched deaths are then included with mortality information posted to the Michigan Coronavirus website. As a result of the most recent assessment, today's data includes **7** additional deaths identified by this methodology.



CURRENT STATUS	DAILY CASES	CUMULATIVE TRENDS	DEMOGRAPHICS	TOTAL TESTING	DIAGNOSTIC TESTING	LEARN MORE
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[View Cases](#)

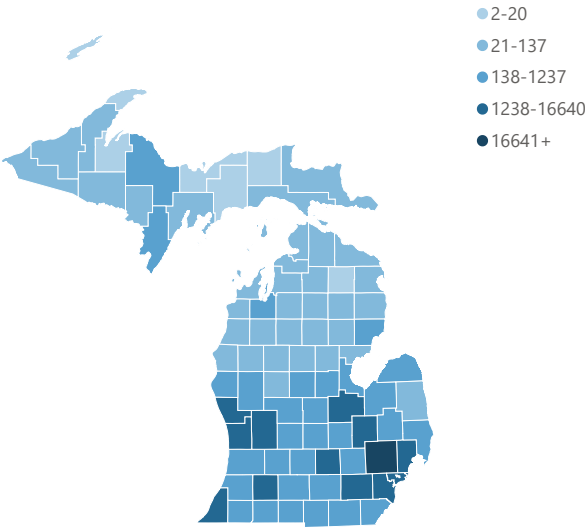
[View Deaths](#)

[View Table](#)

COVID-19 Cases by County

Confirmed cases include individuals with a positive diagnostic test for COVID-19. Probable cases include individuals with COVID-19 symptoms and an epidemiologic link to confirmed COVID-19, but no diagnostic test.

Cases by County



Michigan

Tuesday, August 18, 2020

Michigan (Statewide) Case Fatality Rate
6.8%

Current Totals

Case Status	Cases	Deaths
Confirmed	93,662	6,340
Probable	9,741	268
Total	103,403	6,608

Laboratory Testing

Test Type	Tests Performed
Diagnostic	2,391,049
Serology	239,798
Total	2,630,847

Select Preparedness Region:

All

Select County:

All

This report is provisional and subject to change. City of Detroit and Wayne County are reported separately. MDHHS began tracking probable cases April 5, 2020. FCI indicates federal correctional institute. MDOC indicates Michigan Department of Corrections. Diagnostic tests, including nucleic acid amplification/real-time polymerase chain reaction (NAAT/RT-PCR) and rapid virus antigen detection point of care (POC) tests, look for current infection. Serology (antibody) tests are used to look for the possibility of previous infection.

Source: Michigan Disease Surveillance System (MDSS) and Vital Records.

Microsoft Power BI

< 1 of 7 >



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Cases by Hispanic/Latino Ethnicity

Hispanic/Latino Ethnicity	Percentage of Overall Cases by Ethnicity	Percentage of Deceased Cases by Ethnicity
Hispanic/Latino	8%	2%
Non-Hispanic Latino	65%	83%
Unknown	27%	14%

Totals may not add to 100% due to rounding



**Cases by Arab Ethnicity**

<b>Arab Ethnicity</b>	<b>Percentage of Overall Cases by Ethnicity</b>	<b>Percentage of Deceased Cases by Ethnicity</b>
Arab	3%	1%
Non-Arab	47%	45%
Unknown	50%	53%

***Totals may not add to 100% due to rounding***

PUBLIC USE DATASETS 8/18/2020

(Downloadable .xlsx files)

Cases and Deaths by County

Cases by County by Date

Cases by Demographics Statewide

COVID-19 Tests by County

Diagnostic Tests by Result and County

## Cumulative Total of Recovered COVID-19 Cases

Cumulative Total of Recovered COVID-19 Cases (as of 08/14/2020): **67,778**

**Note on recovery:** During this response, MDHHS is reviewing vital records statistics to identify any laboratory confirmed COVID-19 cases who are 30 days out from their onset of illness to represent recovery status. As the pandemic continues to impact Michigan, this pool will expand to include more cases. Recovered is defined as the number of persons with a confirmed COVID-19 diagnosis who are alive 30 days post-onset (or referral date if onset is not available). The number of persons recovered on August 14, 2020 represents COVID-19 confirmed individuals with an onset date on or prior to July 15, 2020. If an individual dies from a COVID-related cause >30 days from onset/referral, they are removed from the number of persons recovered. These numbers will be updated every Saturday.

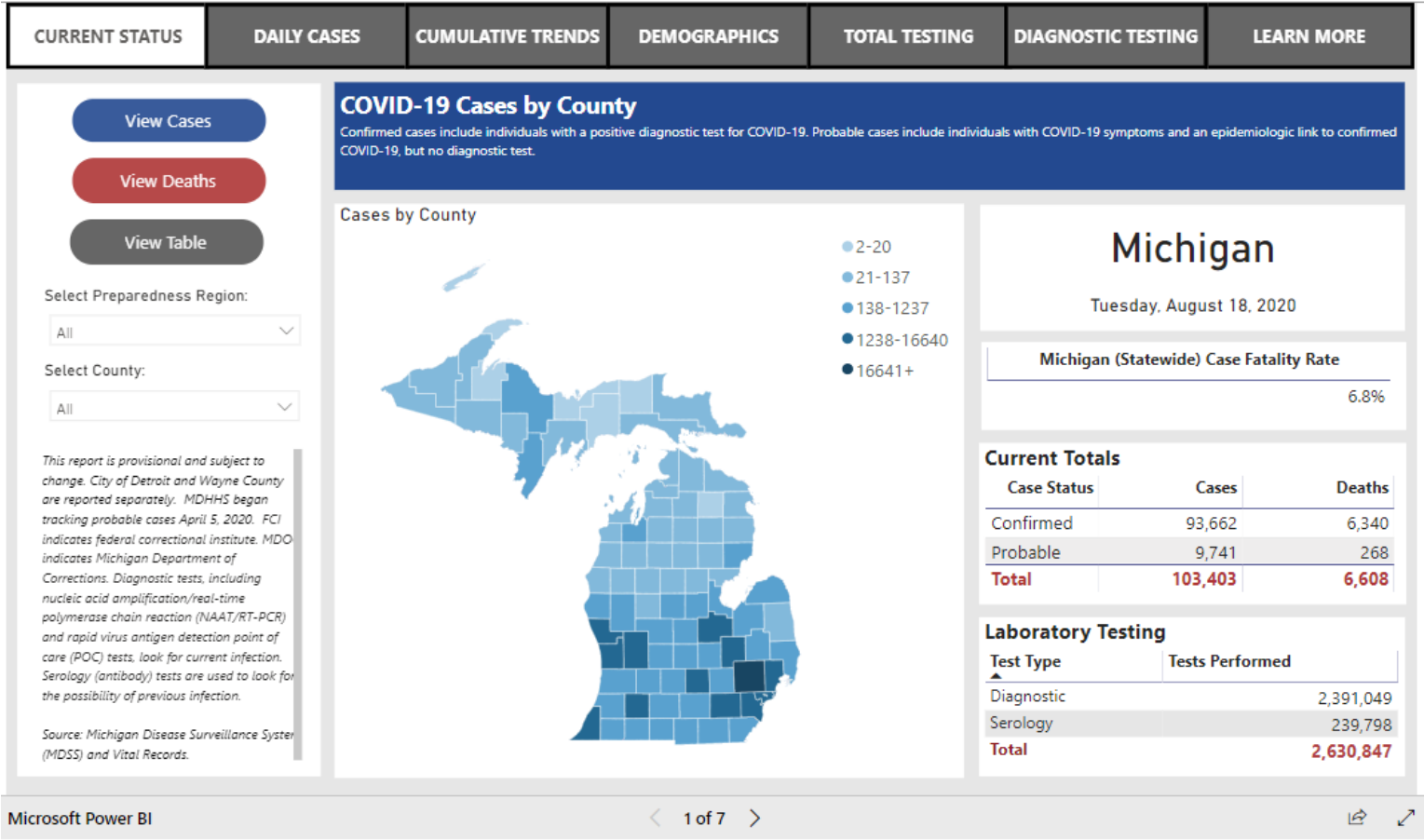
**Source:** Michigan Disease Surveillance System and Vital Records

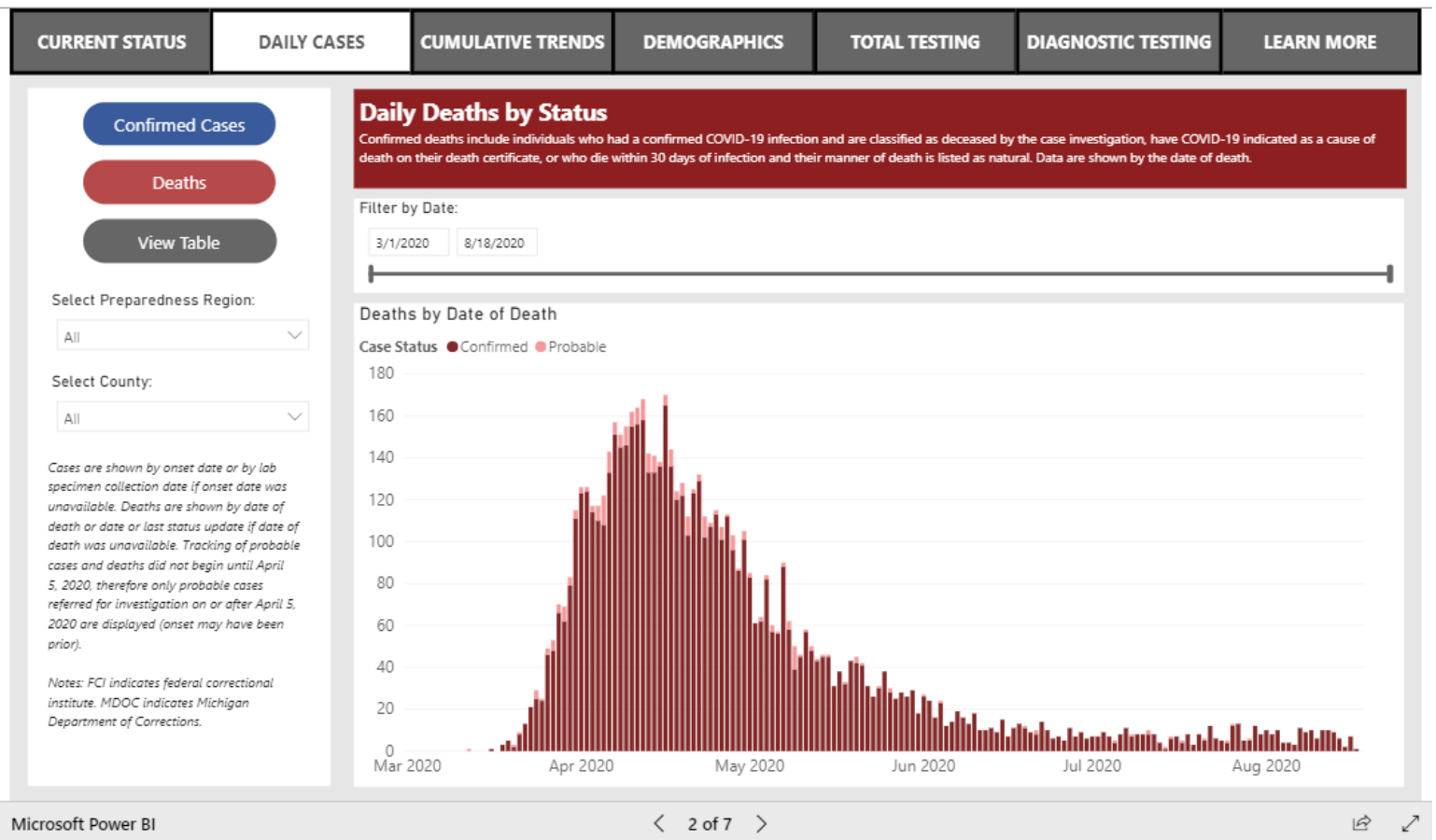
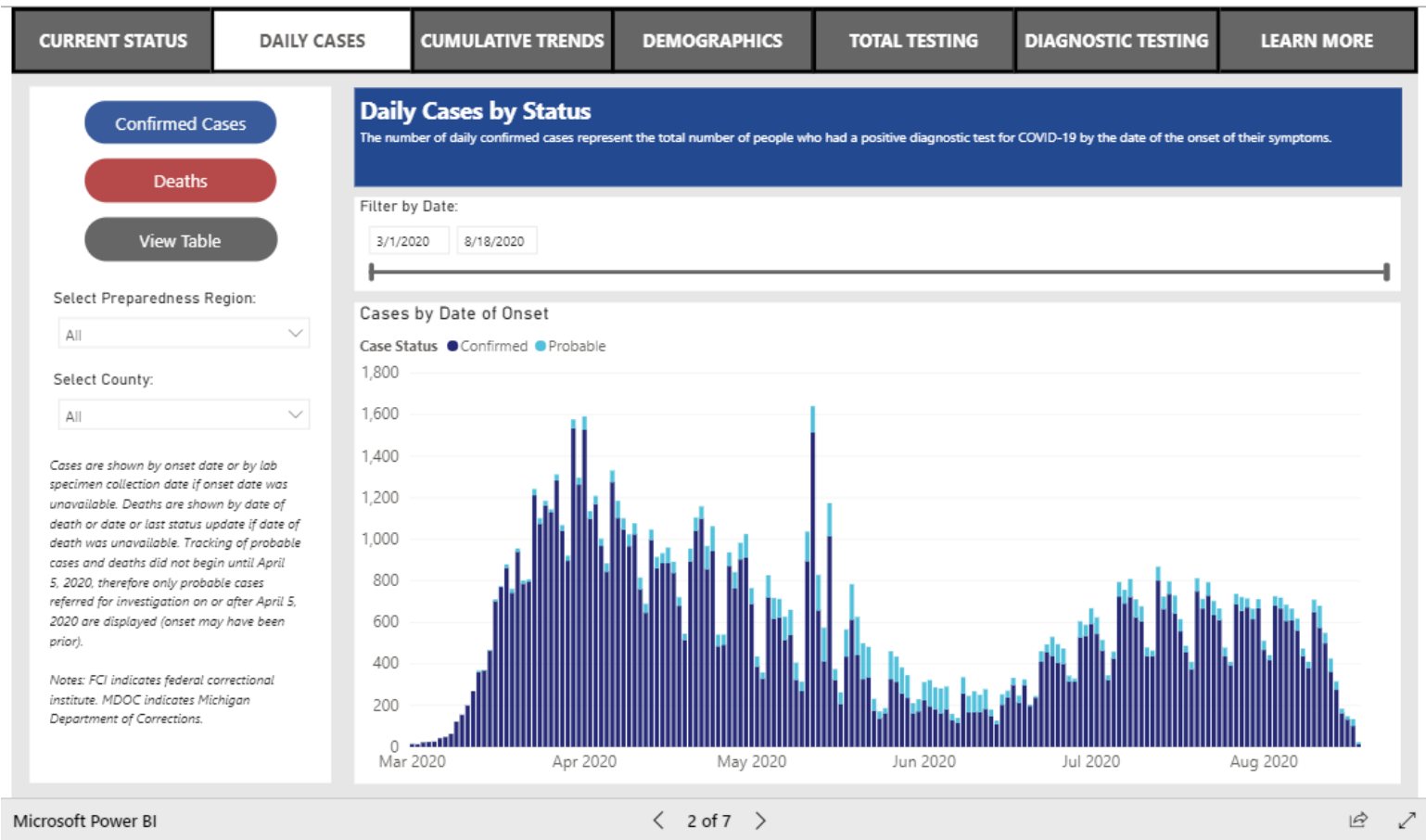


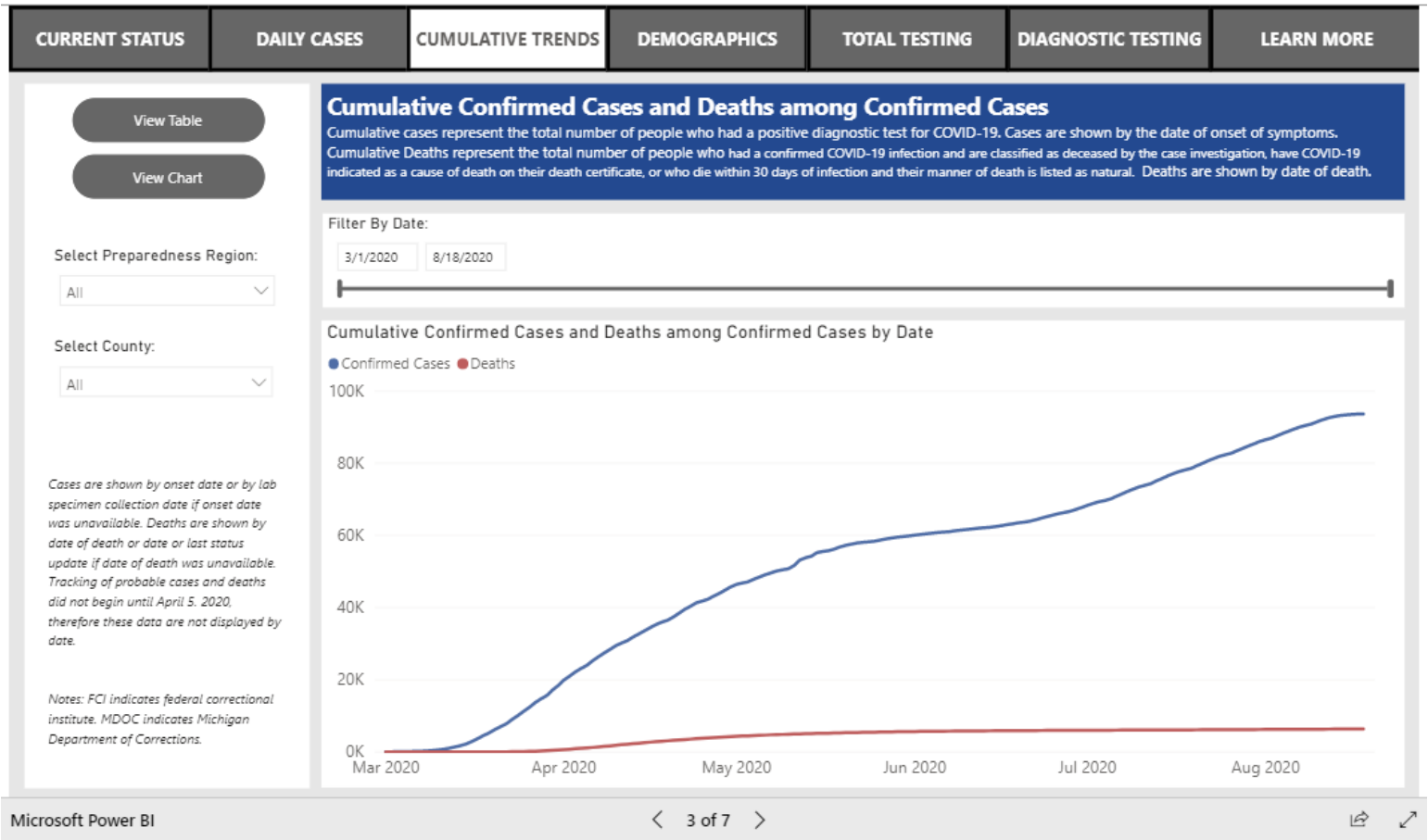
**MICHIGAN.GOV HOME**  
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**POLICIES**

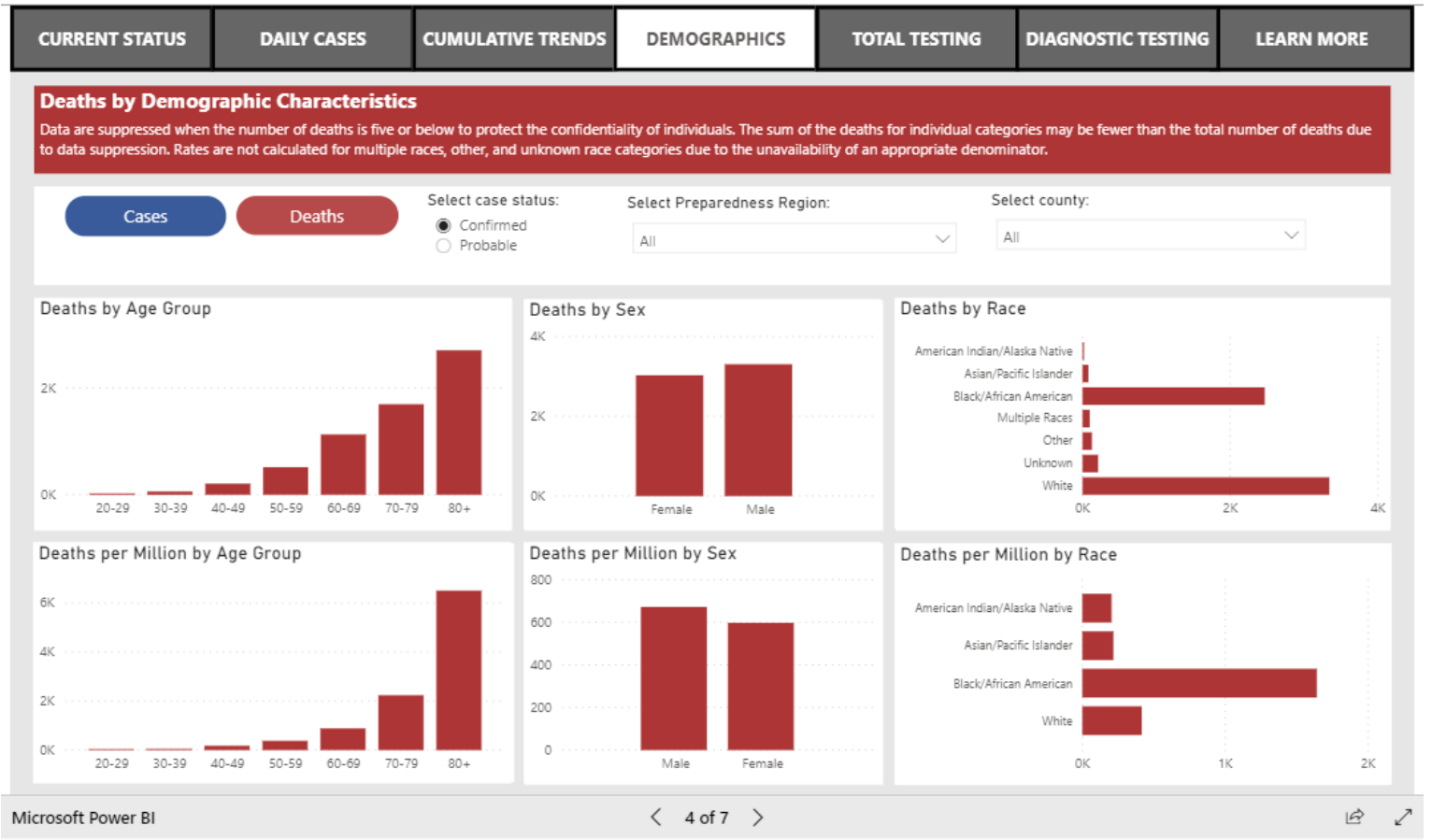
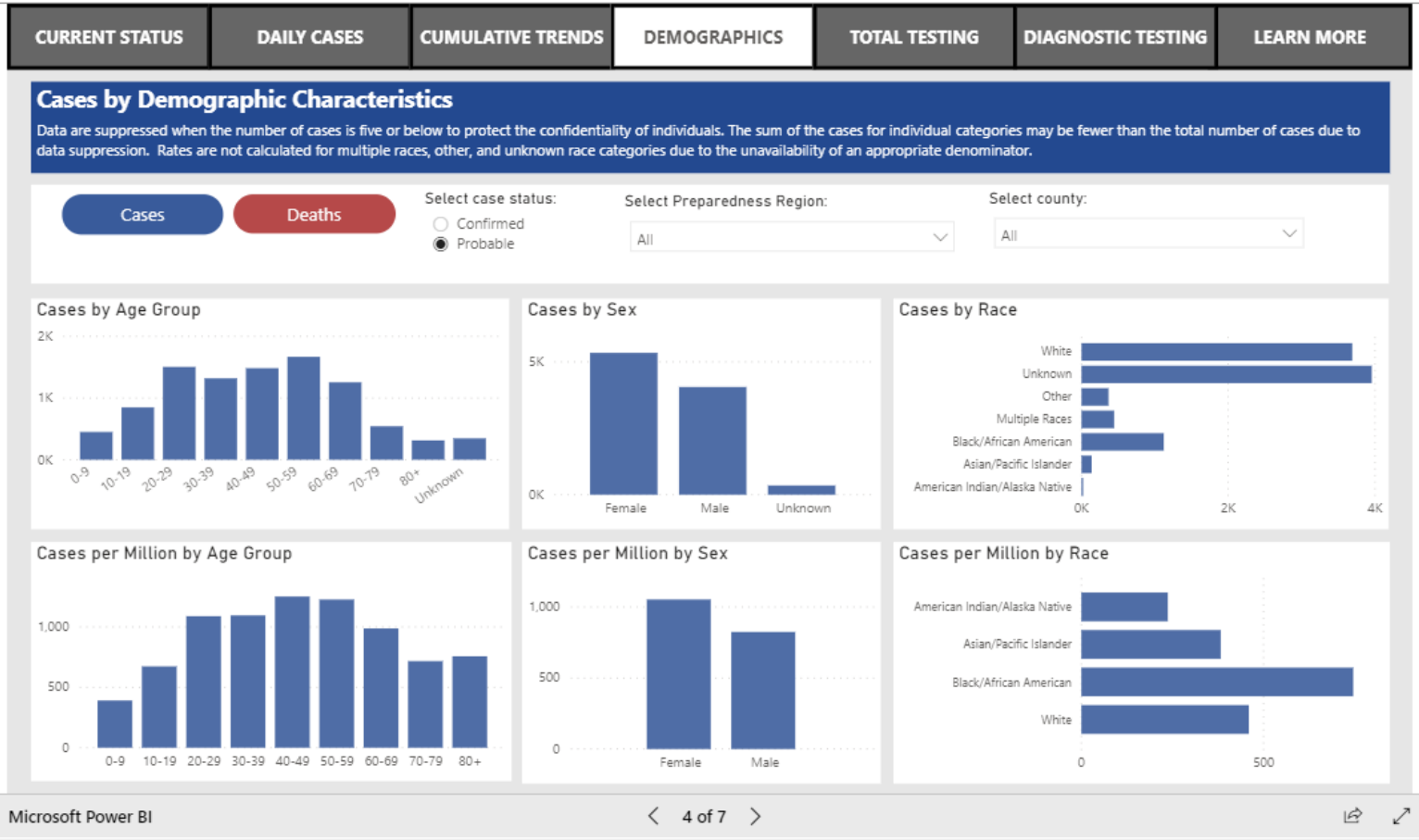
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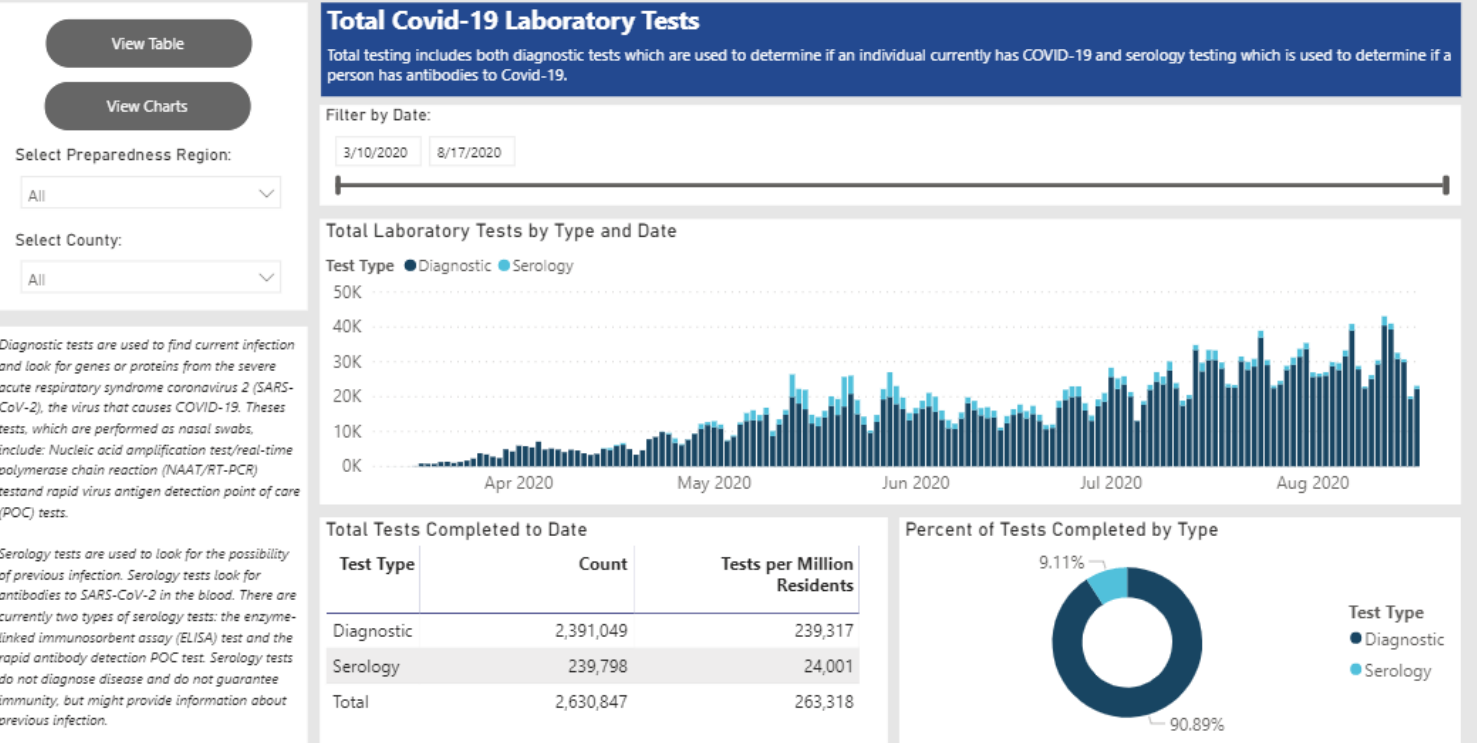
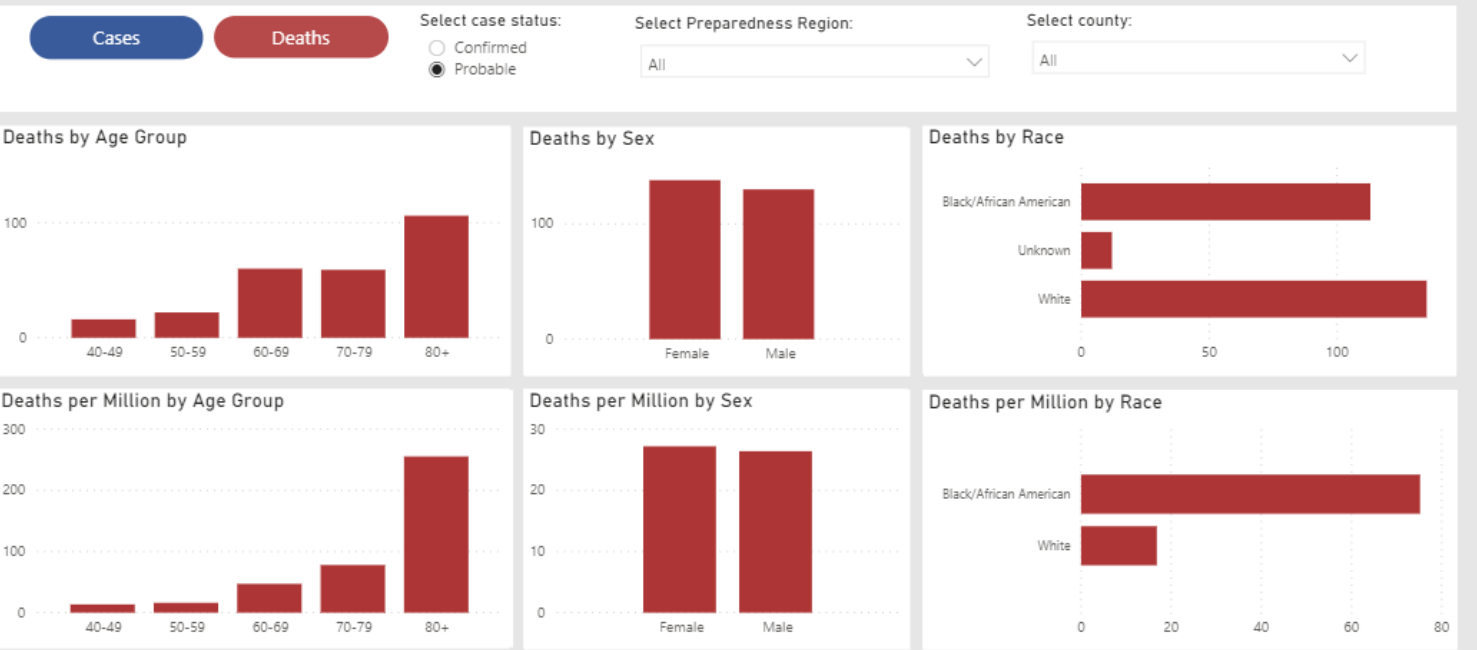


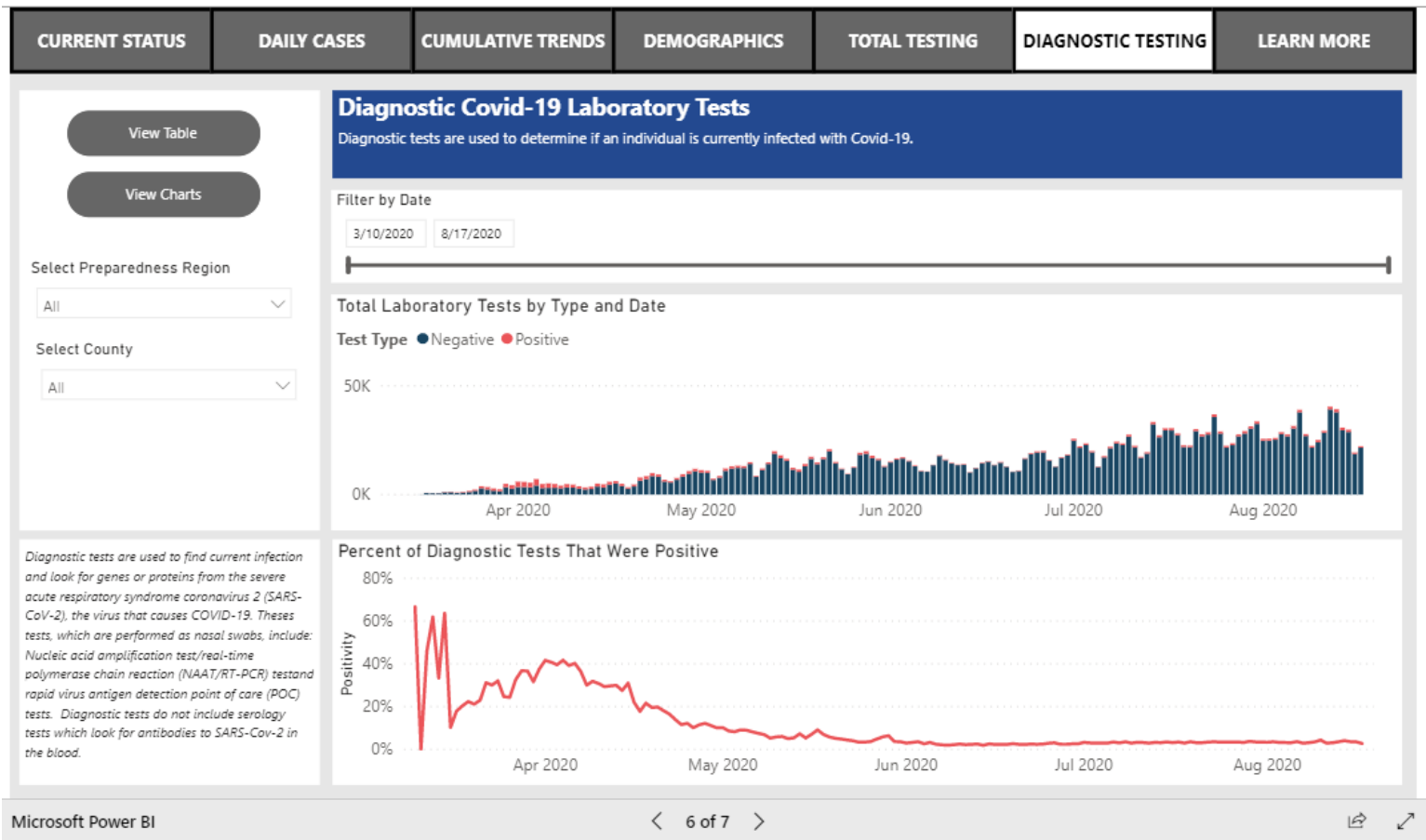




Deaths by Demographic Characteristics

Data are suppressed when the number of deaths is five or below to protect the confidentiality of individuals. The sum of the deaths for individual categories may be fewer than the total number of deaths due to data suppression. Rates are not calculated for multiple races, other, and unknown race categories due to the unavailability of an appropriate denominator.





CURRENT STATUS	DAILY CASES	CUMULATIVE TRENDS	DEMOGRAPHICS	TOTAL TESTING	DIAGNOSTIC TESTING	LEARN MORE
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#### Where does the data come from?

The State of Michigan COVID-19 Dashboard displays the most recent provisional data reported to the Michigan Department of Health and Human Services (MDHHS) about cases in Michigan by selected demographics and county of residence (City of Detroit and Wayne County are reported separately). Data are reported to MDHHS via the [Michigan Disease Surveillance System \(MDSS\)](#). Provisional Death data are provided by the MDHHS Division for [Vital Records & Health Statistics](#).

#### How does MDHHS classify confirmed and probable cases?

Confirmed cases only include individuals who have had a positive diagnostic laboratory test for COVID-19. Probable cases include individuals who have symptoms consistent with COVID-19 and an epidemiologic link to a confirmed case or a positive serology (antibody) test, but do not have a positive diagnostic laboratory test for COVID-19 and individuals with a positive serology (antibody) test for COVID-19 and an epidemiologic link to a confirmed case.

#### How does MDHHS classify confirmed and probable deaths?

Confirmed deaths include individuals who meet one or more of the following conditions: 1) Have been identified as a confirmed case and classified as deceased as a result of a case investigation in the Michigan Disease Surveillance System (MDSS). MDSS is the database used by state and local health department to monitor reportable diseases like COVID-19; 2) have been identified as a confirmed case in MDSS had have a death certificate with COVID-19 listed as a cause of death; 3) have been identified as a confirmed case in MDSS and die within 30 days of onset of COVID-19 infection and have a death certificate which classifies their manner death as 'natural'. Probable deaths include individuals who have COVID indicated as a cause of death on their death certificate but have not had a positive diagnostic laboratory test.

#### Why do the number of probable cases fluctuate?

The number of probable cases can change daily based on the investigation efforts of the health department. When a probable case is first reported, local and/or state health department staff investigate to determine if the person meets the case definition of probable. As additional information is gathered, the case could be re-classified to confirmed, remain as probable, or be determined as not a case.

#### Why do data in the demographics tab not sum to the total number of cases for a county or region?

Data are not shown whenever the number of cases for a particular demographic category is fewer than six to protect the confidentiality of individuals. Rates are not calculated for other, multiple, and unknown race because an appropriate population denominator is not available for these categories at the county level.

#### Where can I get more information about COVID-19?

Visit <https://www.michigan.gov/coronavirus> to find information on resources and assistance, answers to frequently asked questions, and the latest updates on Michigan's response to COVID-19. For COVID-19 updates from CDC visit <https://www.cdc.gov/coronavirus/2019-ncov>.

# PUBLIC USE DATASETS

## Cases and Deaths by County

### README

Includes total cases and deaths to date by case status (confirmed or probable) and county.

County is based on the county of residence.

Confirmed cases only include individuals who have had a positive diagnostic laboratory test for COVID-19.

Probable cases include individuals who have symptoms consistent with COVID-19 and an epidemiologic link to a confirmed case or a positive serology (antibody) test, but do not have a positive diagnostic laboratory test for COVID-19 and individuals with a positive serology (antibody) test for COVID-19 and an epidemiologic link to a confirmed case.

Confirmed deaths include individuals who meet one or more of the following conditions: 1) Have been identified as a confirmed case and classified as deceased as a result of a case investigation in the Michigan Disease Surveillance System (MDSS). MDSS is the database used by state and local health department to monitor reportable diseases like COVID-19; 2) have been identified as a confirmed case in MDSS had have a death certificate with COVID-19 listed as a cause of death; 3) have been identified as a confirmed case in MDSS and die within 30 days of onset of COVID-19 infection and have a death certificate which classifies their manner death as 'natural'.

Probable deaths include individuals who have COVID indicated as a cause of death on their death certificate but have not had a positive diagnostic laboratory test.

The number of probable cases can change daily based on information obtained through the health department investigation. Probable cases can be re-classified as a confirmed case or determined to not be a case.

# **CASES AND DEATHS BY COUNTY 2020-08-18**

Updated	COUNTY	ConfirmedCases	ConfirmedDeaths	ProbableCases	ProbableDeaths
2020/08/18 14:07:33	Alcona	25	1	4	0
2020/08/18 14:07:33	Alger	15	0	2	0
2020/08/18 14:07:33	Allegan	510	6	63	0
2020/08/18 14:07:33	Alpena	116	14	14	0
2020/08/18 14:07:33	Antrim	40	0	3	0
2020/08/18 14:07:33	Arenac	42	3	7	0
2020/08/18 14:07:33	Baraga	6	0		
2020/08/18 14:07:33	Barry	174	2	24	0
2020/08/18 14:07:33	Bay	643	35	80	0
2020/08/18 14:07:33	Benzie	33	1	4	0
2020/08/18 14:07:33	Berrien	1291	69	181	0
2020/08/18 14:07:33	Branch	353	2	34	0
2020/08/18 14:07:33	Calhoun	742	42	111	1
2020/08/18 14:07:33	Cass	343	14	26	1
2020/08/18 14:07:33	Charlevoix	53	2	5	0
2020/08/18 14:07:33	Cheboygan	49	2	8	0
2020/08/18 14:07:33	Chippewa	33	0	14	0
2020/08/18 14:07:33	Clare	81	3	7	0
2020/08/18 14:07:33	Clinton	374	13	69	0
2020/08/18 14:07:33	Crawford	102	5	9	0
2020/08/18 14:07:33	Delta	91	3	25	0
2020/08/18 14:07:33	Dickinson	59	2	1	0
2020/08/18 14:07:33	Eaton	416	8	60	0
2020/08/18 14:07:33	Emmet	76	2	9	0
2020/08/18 14:07:33	Genesee	3046	273	725	25
2020/08/18 14:07:33	Gladwin	64	2	6	0
2020/08/18 14:07:33	Gogebic	128	1	9	0
2020/08/18 14:07:33	Grand Traverse	222	5	23	0
2020/08/18 14:07:33	Gratiot	149	15	19	0
2020/08/18 14:07:33	Hillsdale	262	25	21	0
2020/08/18 14:07:33	Houghton	48	0	7	0
2020/08/18 14:07:33	Huron	152	4	26	0
2020/08/18 14:07:33	Ingham	1590	33	50	0
2020/08/18 14:07:33	Ionia	243	7	34	0
2020/08/18 14:07:33	Iosco	116	11	22	1
2020/08/18 14:07:33	Iron	23	1		
2020/08/18 14:07:33	Isabella	201	9	27	0
2020/08/18 14:07:33	Jackson	726	35	22	1
2020/08/18 14:07:33	Kalamazoo	1632	84	133	2
2020/08/18 14:07:33	Kalkaska	43	4	13	0
2020/08/18 14:07:33	Kent	7150	155	693	3
2020/08/18 14:07:33	Keweenaw	2	0		
2020/08/18 14:07:33	Lake	28	0	1	0
2020/08/18 14:07:33	Lapeer	427	32	81	1
2020/08/18 14:07:33	Leelanau	71	0	5	0
2020/08/18 14:07:33	Lenawee	437	13	41	0
2020/08/18 14:07:33	Livingston	776	28	159	1

2020/08/18 14:07:33	Luce	4	0		
2020/08/18 14:07:33	Mackinac	22	0	6	0
2020/08/18 14:07:33	Macomb	11070	918	414	38
2020/08/18 14:07:33	Manistee	38	1	5	0
2020/08/18 14:07:33	Marquette	185	11	25	0
2020/08/18 14:07:33	Mason	96	0	11	0
2020/08/18 14:07:33	Mecosta	69	2	7	0
2020/08/18 14:07:33	Menominee	171	0	25	0
2020/08/18 14:07:33	Midland	279	10	83	0
2020/08/18 14:07:33	Missaukee	28	1	14	0
2020/08/18 14:07:33	Monroe	964	22	130	2
2020/08/18 14:07:33	Montcalm	187	3	20	0
2020/08/18 14:07:33	Montmorency	7	0	1	0
2020/08/18 14:07:33	Muskegon	1185	63	53	0
2020/08/18 14:07:33	Newaygo	262	0	13	0
2020/08/18 14:07:33	Oakland	13208	1101	3431	43
2020/08/18 14:07:33	Oceana	466	6	24	0
2020/08/18 14:07:33	Ogemaw	40	3	14	0
2020/08/18 14:07:33	Ontonagon	28	0	2	0
2020/08/18 14:07:33	Osceola	64	0	7	0
2020/08/18 14:07:33	Oscoda	22	1	7	0
2020/08/18 14:07:33	Otsego	116	11	20	0
2020/08/18 14:07:33	Ottawa	1835	54	108	5
2020/08/18 14:07:33	Presque Isle	19	1	2	0
2020/08/18 14:07:33	Roscommon	52	2	7	0
2020/08/18 14:07:33	Saginaw	2078	125	133	3
2020/08/18 14:07:33	Sanilac	113	5	4	1
2020/08/18 14:07:33	Schoolcraft	13	0	1	0
2020/08/18 14:07:33	Shiawassee	336	28	25	1
2020/08/18 14:07:33	St Clair	722	52	125	1
2020/08/18 14:07:33	St Joseph	552	10	84	0
2020/08/18 14:07:33	Tuscola	346	29	45	0
2020/08/18 14:07:33	Van Buren	463	12	51	1
2020/08/18 14:07:33	Washtenaw	2348	114	321	1
2020/08/18 14:07:33	Wayne	14536	1213	650	36
2020/08/18 14:07:33	Wexford	63	4	12	0
2020/08/18 14:07:33	MDOC	4895	69	6	0
2020/08/18 14:07:33	FCI	191	5	4	0
2020/08/18 14:07:33	Out-of-State	124	0	4	1
2020/08/18 14:07:33	Unknown	8	0	15	1
2020/08/18 14:07:33	Detroit City	13253	1498	955	98

# PUBLIC USE DATASETS

## Cases by Demographics Statewide

### README

Includes the total number of confirmed and probable cases and confirmed and probable deaths to date by demographic characteristics

Confirmed cases only include individuals who have had a positive diagnostic laboratory test for COVID-19.

Probable cases include individuals who have symptoms consistent with COVID-19 and an epidemiologic link to a confirmed case or a positive serology (antibody) test, but do not have a positive diagnostic laboratory test for COVID-19 and individuals with a positive serology (antibody) test for COVID-19 and an epidemiologic link to a confirmed case.

Confirmed deaths include individuals who meet one or more of the following conditions: 1) Have been identified as a confirmed case and classified as deceased as a result of a case investigation in the Michigan Disease Surveillance System (MDSS). MDSS is the database used by state and local health department to monitor reportable diseases like COVID-19; 2) have been identified as a confirmed case in MDSS had have a death certificate with COVID-19 listed as a cause of death; 3) have been identified as a confirmed case in MDSS and die within 30 days of onset of COVID-19 infection and have a death certificate which classifies their manner death as 'natural'.

Probable deaths include individuals who have COVID indicated as a cause of death on their death certificate but have not had a positive diagnostic laboratory test.

The number of probable cases can change daily based on information obtained through the health department investigation. Probable cases can be re-classified as a confirmed case or determined to not be a case.

Data is suppressed when the number of cases or deaths in a single category is between one and five to protect the confidentiality of individuals.

# **CASES BY DEMOGRAPHICS STATEWIDE 2020-08-18**

CASE_STATUS	AgeCat	RaceCat	SEX	Cases	Deaths
Confirmed	0-9	American Indian/Alaska Native	Female	6	0
Confirmed	10-19	American Indian/Alaska Native	Female	19	0
Confirmed	20-29	American Indian/Alaska Native	Female	38	0
Confirmed	30-39	American Indian/Alaska Native	Female	33	0
Confirmed	40-49	American Indian/Alaska Native	Female	36	0
Confirmed	50-59	American Indian/Alaska Native	Female	43	0
Confirmed	60-69	American Indian/Alaska Native	Female	18	Suppressed
Confirmed	70-79	American Indian/Alaska Native	Female	16	Suppressed
Confirmed	80+	American Indian/Alaska Native	Female	6	Suppressed
Confirmed	Unknown	American Indian/Alaska Native	Female	0	0
Confirmed	0-9	Asian/Pacific Islander	Female	15	0
Confirmed	10-19	Asian/Pacific Islander	Female	43	0
Confirmed	20-29	Asian/Pacific Islander	Female	144	0
Confirmed	30-39	Asian/Pacific Islander	Female	188	0
Confirmed	40-49	Asian/Pacific Islander	Female	190	0
Confirmed	50-59	Asian/Pacific Islander	Female	158	Suppressed
Confirmed	60-69	Asian/Pacific Islander	Female	97	Suppressed
Confirmed	70-79	Asian/Pacific Islander	Female	46	10
Confirmed	80+	Asian/Pacific Islander	Female	52	22
Confirmed	Unknown	Asian/Pacific Islander	Female	0	0
Confirmed	0-9	Black/African American	Female	157	Suppressed
Confirmed	10-19	Black/African American	Female	415	Suppressed
Confirmed	20-29	Black/African American	Female	1882	Suppressed
Confirmed	30-39	Black/African American	Female	1914	8
Confirmed	40-49	Black/African American	Female	2057	52
Confirmed	50-59	Black/African American	Female	2012	105
Confirmed	60-69	Black/African American	Female	1838	226
Confirmed	70-79	Black/African American	Female	1270	308
Confirmed	80+	Black/African American	Female	1009	414
Confirmed	Unknown	Black/African American	Female	0	0
Confirmed	0-9	Multiple Races	Female	56	0
Confirmed	10-19	Multiple Races	Female	222	0
Confirmed	20-29	Multiple Races	Female	643	0
Confirmed	30-39	Multiple Races	Female	538	0
Confirmed	40-49	Multiple Races	Female	654	Suppressed
Confirmed	50-59	Multiple Races	Female	689	Suppressed
Confirmed	60-69	Multiple Races	Female	426	Suppressed
Confirmed	70-79	Multiple Races	Female	196	12
Confirmed	80+	Multiple Races	Female	193	19
Confirmed	Unknown	Multiple Races	Female	Suppressed	0
Confirmed	0-9	Other	Female	113	0
Confirmed	10-19	Other	Female	292	0
Confirmed	20-29	Other	Female	638	0
Confirmed	30-39	Other	Female	511	Suppressed
Confirmed	40-49	Other	Female	505	Suppressed
Confirmed	50-59	Other	Female	344	Suppressed
Confirmed	60-69	Other	Female	221	13

Confirmed	70-79	Other	Female	115	14
Confirmed	80+	Other	Female	102	21
Confirmed	Unknown	Other	Female	Suppressed	0
Confirmed	0-9	Unknown	Female	102	0
Confirmed	10-19	Unknown	Female	565	0
Confirmed	20-29	Unknown	Female	1131	0
Confirmed	30-39	Unknown	Female	982	0
Confirmed	40-49	Unknown	Female	1111	Suppressed
Confirmed	50-59	Unknown	Female	1094	6
Confirmed	60-69	Unknown	Female	831	17
Confirmed	70-79	Unknown	Female	488	25
Confirmed	80+	Unknown	Female	551	51
Confirmed	Unknown	Unknown	Female	7	0
Confirmed	0-9	White	Female	297	0
Confirmed	10-19	White	Female	1609	0
Confirmed	20-29	White	Female	3889	Suppressed
Confirmed	30-39	White	Female	2762	8
Confirmed	40-49	White	Female	2810	22
Confirmed	50-59	White	Female	3174	66
Confirmed	60-69	White	Female	2499	167
Confirmed	70-79	White	Female	1882	366
Confirmed	80+	White	Female	2948	1036
Confirmed	Unknown	White	Female	11	0
Confirmed	0-9	American Indian/Alaska Native	Male	8	0
Confirmed	10-19	American Indian/Alaska Native	Male	8	0
Confirmed	20-29	American Indian/Alaska Native	Male	27	0
Confirmed	30-39	American Indian/Alaska Native	Male	31	0
Confirmed	40-49	American Indian/Alaska Native	Male	40	0
Confirmed	50-59	American Indian/Alaska Native	Male	36	Suppressed
Confirmed	60-69	American Indian/Alaska Native	Male	26	6
Confirmed	70-79	American Indian/Alaska Native	Male	16	6
Confirmed	80+	American Indian/Alaska Native	Male	Suppressed	Suppressed
Confirmed	Unknown	American Indian/Alaska Native	Male	0	0
Confirmed	0-9	Asian/Pacific Islander	Male	31	0
Confirmed	10-19	Asian/Pacific Islander	Male	30	0
Confirmed	20-29	Asian/Pacific Islander	Male	159	0
Confirmed	30-39	Asian/Pacific Islander	Male	171	0
Confirmed	40-49	Asian/Pacific Islander	Male	150	Suppressed
Confirmed	50-59	Asian/Pacific Islander	Male	130	Suppressed
Confirmed	60-69	Asian/Pacific Islander	Male	96	11
Confirmed	70-79	Asian/Pacific Islander	Male	44	12
Confirmed	80+	Asian/Pacific Islander	Male	33	16
Confirmed	Unknown	Asian/Pacific Islander	Male	0	0
Confirmed	0-9	Black/African American	Male	146	0
Confirmed	10-19	Black/African American	Male	371	0
Confirmed	20-29	Black/African American	Male	1376	9
Confirmed	30-39	Black/African American	Male	1510	27
Confirmed	40-49	Black/African American	Male	1701	70
Confirmed	50-59	Black/African American	Male	2035	189
Confirmed	60-69	Black/African American	Male	1964	338



Confirmed	70-79	Black/African American	Male	1269	412
Confirmed	80+	Black/African American	Male	592	301
Confirmed	Unknown	Black/African American	Male	Suppressed	0
Confirmed	0-9	Multiple Races	Male	66	0
Confirmed	10-19	Multiple Races	Male	213	0
Confirmed	20-29	Multiple Races	Male	491	0
Confirmed	30-39	Multiple Races	Male	429	0
Confirmed	40-49	Multiple Races	Male	476	Suppressed
Confirmed	50-59	Multiple Races	Male	490	Suppressed
Confirmed	60-69	Multiple Races	Male	351	21
Confirmed	70-79	Multiple Races	Male	176	14
Confirmed	80+	Multiple Races	Male	80	16
Confirmed	Unknown	Multiple Races	Male	0	0
Confirmed	0-9	Other	Male	135	0
Confirmed	10-19	Other	Male	315	0
Confirmed	20-29	Other	Male	645	Suppressed
Confirmed	30-39	Other	Male	608	Suppressed
Confirmed	40-49	Other	Male	528	Suppressed
Confirmed	50-59	Other	Male	379	9
Confirmed	60-69	Other	Male	239	24
Confirmed	70-79	Other	Male	127	18
Confirmed	80+	Other	Male	51	12
Confirmed	Unknown	Other	Male	Suppressed	0
Confirmed	0-9	Unknown	Male	129	0
Confirmed	10-19	Unknown	Male	604	0
Confirmed	20-29	Unknown	Male	1202	Suppressed
Confirmed	30-39	Unknown	Male	1174	Suppressed
Confirmed	40-49	Unknown	Male	1261	11
Confirmed	50-59	Unknown	Male	1238	9
Confirmed	60-69	Unknown	Male	872	18
Confirmed	70-79	Unknown	Male	428	25
Confirmed	80+	Unknown	Male	264	42
Confirmed	Unknown	Unknown	Male	10	0
Confirmed	0-9	White	Male	348	0
Confirmed	10-19	White	Male	1350	0
Confirmed	20-29	White	Male	3064	Suppressed
Confirmed	30-39	White	Male	2644	12
Confirmed	40-49	White	Male	2620	38
Confirmed	50-59	White	Male	3180	117
Confirmed	60-69	White	Male	2794	280
Confirmed	70-79	White	Male	1902	471
Confirmed	80+	White	Male	1599	749
Confirmed	Unknown	White	Male	7	0
Confirmed	0-9	American Indian/Alaska Native	Unknown	0	0
Confirmed	10-19	American Indian/Alaska Native	Unknown	0	0
Confirmed	20-29	American Indian/Alaska Native	Unknown	0	0
Confirmed	30-39	American Indian/Alaska Native	Unknown	0	0
Confirmed	40-49	American Indian/Alaska Native	Unknown	0	0
Confirmed	50-59	American Indian/Alaska Native	Unknown	0	0
Confirmed	60-69	American Indian/Alaska Native	Unknown	0	0

Confirmed	70-79	American Indian/Alaska Native	Unknown	0	0
Confirmed	80+	American Indian/Alaska Native	Unknown	0	0
Confirmed	Unknown	American Indian/Alaska Native	Unknown	0	0
Confirmed	0-9	Asian/Pacific Islander	Unknown	0	0
Confirmed	10-19	Asian/Pacific Islander	Unknown	0	0
Confirmed	20-29	Asian/Pacific Islander	Unknown	0	0
Confirmed	30-39	Asian/Pacific Islander	Unknown	Suppressed	0
Confirmed	40-49	Asian/Pacific Islander	Unknown	0	0
Confirmed	50-59	Asian/Pacific Islander	Unknown	0	0
Confirmed	60-69	Asian/Pacific Islander	Unknown	0	0
Confirmed	70-79	Asian/Pacific Islander	Unknown	0	0
Confirmed	80+	Asian/Pacific Islander	Unknown	0	0
Confirmed	Unknown	Asian/Pacific Islander	Unknown	0	0
Confirmed	0-9	Black/African American	Unknown	0	0
Confirmed	10-19	Black/African American	Unknown	Suppressed	0
Confirmed	20-29	Black/African American	Unknown	Suppressed	0
Confirmed	30-39	Black/African American	Unknown	Suppressed	0
Confirmed	40-49	Black/African American	Unknown	Suppressed	0
Confirmed	50-59	Black/African American	Unknown	Suppressed	0
Confirmed	60-69	Black/African American	Unknown	Suppressed	0
Confirmed	70-79	Black/African American	Unknown	Suppressed	0
Confirmed	80+	Black/African American	Unknown	Suppressed	0
Confirmed	Unknown	Black/African American	Unknown	Suppressed	0
Confirmed	0-9	Multiple Races	Unknown	0	0
Confirmed	10-19	Multiple Races	Unknown	Suppressed	0
Confirmed	20-29	Multiple Races	Unknown	Suppressed	0
Confirmed	30-39	Multiple Races	Unknown	Suppressed	0
Confirmed	40-49	Multiple Races	Unknown	0	0
Confirmed	50-59	Multiple Races	Unknown	Suppressed	0
Confirmed	60-69	Multiple Races	Unknown	Suppressed	0
Confirmed	70-79	Multiple Races	Unknown	Suppressed	0
Confirmed	80+	Multiple Races	Unknown	Suppressed	0
Confirmed	Unknown	Multiple Races	Unknown	0	0
Confirmed	0-9	Other	Unknown	Suppressed	0
Confirmed	10-19	Other	Unknown	Suppressed	0
Confirmed	20-29	Other	Unknown	0	0
Confirmed	30-39	Other	Unknown	Suppressed	0
Confirmed	40-49	Other	Unknown	Suppressed	0
Confirmed	50-59	Other	Unknown	Suppressed	0
Confirmed	60-69	Other	Unknown	0	0
Confirmed	70-79	Other	Unknown	0	0
Confirmed	80+	Other	Unknown	0	0
Confirmed	Unknown	Other	Unknown	Suppressed	0
Confirmed	0-9	Unknown	Unknown	9	0
Confirmed	10-19	Unknown	Unknown	9	0
Confirmed	20-29	Unknown	Unknown	37	0
Confirmed	30-39	Unknown	Unknown	25	0
Confirmed	40-49	Unknown	Unknown	33	0
Confirmed	50-59	Unknown	Unknown	27	0
Confirmed	60-69	Unknown	Unknown	13	0

Confirmed	70-79	Unknown	Unknown	6	0
Confirmed	80+	Unknown	Unknown	18	0
Confirmed	Unknown	Unknown	Unknown	6	0
Confirmed	0-9	White	Unknown	0	0
Confirmed	10-19	White	Unknown	Suppressed	0
Confirmed	20-29	White	Unknown	6	0
Confirmed	30-39	White	Unknown	6	0
Confirmed	40-49	White	Unknown	Suppressed	0
Confirmed	50-59	White	Unknown	Suppressed	0
Confirmed	60-69	White	Unknown	Suppressed	0
Confirmed	70-79	White	Unknown	Suppressed	0
Confirmed	80+	White	Unknown	Suppressed	0
Confirmed	Unknown	White	Unknown	0	0
Probable	0-9	American Indian/Alaska Native	Female	Suppressed	0
Probable	10-19	American Indian/Alaska Native	Female	0	0
Probable	20-29	American Indian/Alaska Native	Female	Suppressed	0
Probable	30-39	American Indian/Alaska Native	Female	Suppressed	0
Probable	40-49	American Indian/Alaska Native	Female	Suppressed	0
Probable	50-59	American Indian/Alaska Native	Female	Suppressed	0
Probable	60-69	American Indian/Alaska Native	Female	Suppressed	0
Probable	70-79	American Indian/Alaska Native	Female	Suppressed	0
Probable	80+	American Indian/Alaska Native	Female	0	0
Probable	Unknown	American Indian/Alaska Native	Female	0	0
Probable	0-9	Asian/Pacific Islander	Female	9	0
Probable	10-19	Asian/Pacific Islander	Female	7	0
Probable	20-29	Asian/Pacific Islander	Female	20	0
Probable	30-39	Asian/Pacific Islander	Female	17	0
Probable	40-49	Asian/Pacific Islander	Female	6	0
Probable	50-59	Asian/Pacific Islander	Female	11	0
Probable	60-69	Asian/Pacific Islander	Female	Suppressed	0
Probable	70-79	Asian/Pacific Islander	Female	Suppressed	0
Probable	80+	Asian/Pacific Islander	Female	0	0
Probable	Unknown	Asian/Pacific Islander	Female	Suppressed	0
Probable	0-9	Black/African American	Female	21	0
Probable	10-19	Black/African American	Female	38	0
Probable	20-29	Black/African American	Female	110	0
Probable	30-39	Black/African American	Female	88	0
Probable	40-49	Black/African American	Female	118	Suppressed
Probable	50-59	Black/African American	Female	126	6
Probable	60-69	Black/African American	Female	105	11
Probable	70-79	Black/African American	Female	44	10
Probable	80+	Black/African American	Female	30	20
Probable	Unknown	Black/African American	Female	Suppressed	0
Probable	0-9	Multiple Races	Female	10	0
Probable	10-19	Multiple Races	Female	19	0
Probable	20-29	Multiple Races	Female	39	0
Probable	30-39	Multiple Races	Female	19	0
Probable	40-49	Multiple Races	Female	46	0
Probable	50-59	Multiple Races	Female	53	0
Probable	60-69	Multiple Races	Female	37	0

Probable	70-79	Multiple Races	Female	10	0
Probable	80+	Multiple Races	Female	Suppressed	Suppressed
Probable	Unknown	Multiple Races	Female	Suppressed	0
Probable	0-9	Other	Female	19	0
Probable	10-19	Other	Female	30	0
Probable	20-29	Other	Female	32	0
Probable	30-39	Other	Female	38	0
Probable	40-49	Other	Female	28	0
Probable	50-59	Other	Female	23	Suppressed
Probable	60-69	Other	Female	14	Suppressed
Probable	70-79	Other	Female	8	0
Probable	80+	Other	Female	Suppressed	0
Probable	Unknown	Other	Female	Suppressed	0
Probable	0-9	Unknown	Female	35	0
Probable	10-19	Unknown	Female	136	0
Probable	20-29	Unknown	Female	322	0
Probable	30-39	Unknown	Female	280	0
Probable	40-49	Unknown	Female	369	0
Probable	50-59	Unknown	Female	393	0
Probable	60-69	Unknown	Female	317	Suppressed
Probable	70-79	Unknown	Female	129	0
Probable	80+	Unknown	Female	65	Suppressed
Probable	Unknown	Unknown	Female	27	0
Probable	0-9	White	Female	104	0
Probable	10-19	White	Female	193	0
Probable	20-29	White	Female	333	0
Probable	30-39	White	Female	270	0
Probable	40-49	White	Female	318	Suppressed
Probable	50-59	White	Female	362	Suppressed
Probable	60-69	White	Female	233	15
Probable	70-79	White	Female	123	16
Probable	80+	White	Female	92	41
Probable	Unknown	White	Female	27	0
Probable	0-9	American Indian/Alaska Native	Male	0	0
Probable	10-19	American Indian/Alaska Native	Male	0	0
Probable	20-29	American Indian/Alaska Native	Male	Suppressed	0
Probable	30-39	American Indian/Alaska Native	Male	0	0
Probable	40-49	American Indian/Alaska Native	Male	Suppressed	0
Probable	50-59	American Indian/Alaska Native	Male	Suppressed	0
Probable	60-69	American Indian/Alaska Native	Male	Suppressed	0
Probable	70-79	American Indian/Alaska Native	Male	0	0
Probable	80+	American Indian/Alaska Native	Male	Suppressed	Suppressed
Probable	Unknown	American Indian/Alaska Native	Male	0	0
Probable	0-9	Asian/Pacific Islander	Male	11	0
Probable	10-19	Asian/Pacific Islander	Male	Suppressed	0
Probable	20-29	Asian/Pacific Islander	Male	13	0
Probable	30-39	Asian/Pacific Islander	Male	17	0
Probable	40-49	Asian/Pacific Islander	Male	Suppressed	0
Probable	50-59	Asian/Pacific Islander	Male	7	0
Probable	60-69	Asian/Pacific Islander	Male	Suppressed	0

Probable	70-79	Asian/Pacific Islander	Male	Suppressed	0
Probable	80+	Asian/Pacific Islander	Male	0	0
Probable	Unknown	Asian/Pacific Islander	Male	0	0
Probable	0-9	Black/African American	Male	31	0
Probable	10-19	Black/African American	Male	27	0
Probable	20-29	Black/African American	Male	55	0
Probable	30-39	Black/African American	Male	49	0
Probable	40-49	Black/African American	Male	52	7
Probable	50-59	Black/African American	Male	82	6
Probable	60-69	Black/African American	Male	77	16
Probable	70-79	Black/African American	Male	41	21
Probable	80+	Black/African American	Male	17	13
Probable	Unknown	Black/African American	Male	Suppressed	0
Probable	0-9	Multiple Races	Male	15	0
Probable	10-19	Multiple Races	Male	19	0
Probable	20-29	Multiple Races	Male	26	0
Probable	30-39	Multiple Races	Male	32	0
Probable	40-49	Multiple Races	Male	39	0
Probable	50-59	Multiple Races	Male	29	0
Probable	60-69	Multiple Races	Male	19	0
Probable	70-79	Multiple Races	Male	10	0
Probable	80+	Multiple Races	Male	Suppressed	Suppressed
Probable	Unknown	Multiple Races	Male	Suppressed	0
Probable	0-9	Other	Male	17	0
Probable	10-19	Other	Male	30	0
Probable	20-29	Other	Male	36	0
Probable	30-39	Other	Male	25	0
Probable	40-49	Other	Male	19	0
Probable	50-59	Other	Male	16	0
Probable	60-69	Other	Male	17	Suppressed
Probable	70-79	Other	Male	6	Suppressed
Probable	80+	Other	Male	Suppressed	0
Probable	Unknown	Other	Male	Suppressed	0
Probable	0-9	Unknown	Male	36	0
Probable	10-19	Unknown	Male	138	0
Probable	20-29	Unknown	Male	245	Suppressed
Probable	30-39	Unknown	Male	254	Suppressed
Probable	40-49	Unknown	Male	250	Suppressed
Probable	50-59	Unknown	Male	285	0
Probable	60-69	Unknown	Male	218	Suppressed
Probable	70-79	Unknown	Male	86	Suppressed
Probable	80+	Unknown	Male	36	Suppressed
Probable	Unknown	Unknown	Male	21	0
Probable	0-9	White	Male	128	0
Probable	10-19	White	Male	193	0
Probable	20-29	White	Male	253	Suppressed
Probable	30-39	White	Male	213	Suppressed
Probable	40-49	White	Male	212	Suppressed
Probable	50-59	White	Male	265	Suppressed
Probable	60-69	White	Male	198	12

Probable	70-79	White	Male	78	10
Probable	80+	White	Male	61	24
Probable	Unknown	White	Male	13	0
Probable	0-9	American Indian/Alaska Native	Unknown	0	0
Probable	10-19	American Indian/Alaska Native	Unknown	0	0
Probable	20-29	American Indian/Alaska Native	Unknown	Suppressed	0
Probable	30-39	American Indian/Alaska Native	Unknown	0	0
Probable	40-49	American Indian/Alaska Native	Unknown	0	0
Probable	50-59	American Indian/Alaska Native	Unknown	0	0
Probable	60-69	American Indian/Alaska Native	Unknown	0	0
Probable	70-79	American Indian/Alaska Native	Unknown	0	0
Probable	80+	American Indian/Alaska Native	Unknown	0	0
Probable	Unknown	American Indian/Alaska Native	Unknown	0	0
Probable	0-9	Asian/Pacific Islander	Unknown	0	0
Probable	10-19	Asian/Pacific Islander	Unknown	0	0
Probable	20-29	Asian/Pacific Islander	Unknown	0	0
Probable	30-39	Asian/Pacific Islander	Unknown	0	0
Probable	40-49	Asian/Pacific Islander	Unknown	0	0
Probable	50-59	Asian/Pacific Islander	Unknown	0	0
Probable	60-69	Asian/Pacific Islander	Unknown	0	0
Probable	70-79	Asian/Pacific Islander	Unknown	0	0
Probable	80+	Asian/Pacific Islander	Unknown	0	0
Probable	Unknown	Asian/Pacific Islander	Unknown	0	0
Probable	0-9	Black/African American	Unknown	0	0
Probable	10-19	Black/African American	Unknown	0	0
Probable	20-29	Black/African American	Unknown	0	0
Probable	30-39	Black/African American	Unknown	0	0
Probable	40-49	Black/African American	Unknown	0	0
Probable	50-59	Black/African American	Unknown	0	0
Probable	60-69	Black/African American	Unknown	Suppressed	0
Probable	70-79	Black/African American	Unknown	0	0
Probable	80+	Black/African American	Unknown	0	0
Probable	Unknown	Black/African American	Unknown	Suppressed	0
Probable	0-9	Multiple Races	Unknown	0	0
Probable	10-19	Multiple Races	Unknown	0	0
Probable	20-29	Multiple Races	Unknown	Suppressed	0
Probable	30-39	Multiple Races	Unknown	Suppressed	0
Probable	40-49	Multiple Races	Unknown	Suppressed	0
Probable	50-59	Multiple Races	Unknown	Suppressed	0
Probable	60-69	Multiple Races	Unknown	Suppressed	0
Probable	70-79	Multiple Races	Unknown	0	0
Probable	80+	Multiple Races	Unknown	0	0
Probable	Unknown	Multiple Races	Unknown	0	0
Probable	0-9	Other	Unknown	0	0
Probable	10-19	Other	Unknown	0	0
Probable	20-29	Other	Unknown	0	0
Probable	30-39	Other	Unknown	0	0
Probable	40-49	Other	Unknown	0	0
Probable	50-59	Other	Unknown	0	0
Probable	60-69	Other	Unknown	0	0

Probable	70-79	Other	Unknown	0	0
Probable	80+	Other	Unknown	0	0
Probable	Unknown	Other	Unknown	0	0
Probable	0-9	Unknown	Unknown	7	0
Probable	10-19	Unknown	Unknown	13	0
Probable	20-29	Unknown	Unknown	10	0
Probable	30-39	Unknown	Unknown	15	0
Probable	40-49	Unknown	Unknown	16	0
Probable	50-59	Unknown	Unknown	10	0
Probable	60-69	Unknown	Unknown	9	0
Probable	70-79	Unknown	Unknown	Suppressed	0
Probable	80+	Unknown	Unknown	Suppressed	0
Probable	Unknown	Unknown	Unknown	229	0
Probable	0-9	White	Unknown	6	0
Probable	10-19	White	Unknown	0	0
Probable	20-29	White	Unknown	Suppressed	0
Probable	30-39	White	Unknown	Suppressed	0
Probable	40-49	White	Unknown	Suppressed	0
Probable	50-59	White	Unknown	Suppressed	0
Probable	60-69	White	Unknown	0	0
Probable	70-79	White	Unknown	0	0
Probable	80+	White	Unknown	0	0
Probable	Unknown	White	Unknown	6	0

# PUBLIC USE DATASETS

## COVID-19 Tests by County

### README

Data includes tests by type (diagnostic, serology or total combined) by county.

Diagnostic tests are used to find current infection and look for genes or proteins from the severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2), the virus that causes COVID-19. These tests, which are performed as nasal swabs, include: Nucleic acid amplification test/real-time polymerase chain reaction (NAAT/RT-PCR) test and rapid virus antigen detection point of care (POC) tests.

Serology tests are used to look for the possibility of previous infection. Serology tests look for antibodies to SARS-CoV-2 in the blood. There are currently two types of serology tests: the enzyme-linked immunosorbent assay (ELISA) test and the rapid antibody detection POC test. Serology tests do not diagnose disease and do not guarantee immunity, but might provide information about previous infection.

Correctional includes state and federal prisons and county and city detention facilities. Testing data represents total tests performed, not individuals tested. A single individual may have more than one test completed.



## COVID-19 TESTS BY COUNTY 2020-08-18

Updated	COUNTY	TestType	Count	RatePerMillion
2020/08/18 14:07:38	Alcona	Diagnostic	1384	133013
2020/08/18 14:07:38	Alcona	Serology	38	3652
2020/08/18 14:07:38	Alcona	Total	1422	136665
2020/08/18 14:07:38	Alger	Diagnostic	748	82126
2020/08/18 14:07:38	Alger	Serology	61	6697
2020/08/18 14:07:38	Alger	Total	809	88823
2020/08/18 14:07:38	Allegan	Serology	653	5530
2020/08/18 14:07:38	Allegan	Diagnostic	21613	183035
2020/08/18 14:07:38	Allegan	Total	22266	188565
2020/08/18 14:07:38	Alpena	Diagnostic	1771	62348
2020/08/18 14:07:38	Alpena	Serology	116	4084
2020/08/18 14:07:38	Alpena	Total	1887	66432
2020/08/18 14:07:38	Antrim	Diagnostic	3292	141142
2020/08/18 14:07:38	Antrim	Serology	74	3173
2020/08/18 14:07:38	Antrim	Total	3366	144315
2020/08/18 14:07:38	Arenac	Diagnostic	2641	177451
2020/08/18 14:07:38	Arenac	Serology	110	7391
2020/08/18 14:07:38	Arenac	Total	2751	184842
2020/08/18 14:07:38	Baraga	Diagnostic	1325	161408
2020/08/18 14:07:38	Baraga	Serology	20	2436
2020/08/18 14:07:38	Baraga	Total	1345	163845
2020/08/18 14:07:38	Barry	Serology	470	7636
2020/08/18 14:07:38	Barry	Diagnostic	10700	173842
2020/08/18 14:07:38	Barry	Total	11170	181478
2020/08/18 14:07:38	Bay	Serology	1130	10957
2020/08/18 14:07:38	Bay	Diagnostic	22807	221157
2020/08/18 14:07:38	Bay	Total	23937	232114
2020/08/18 14:07:38	Benzie	Diagnostic	2531	142463
2020/08/18 14:07:38	Benzie	Serology	43	2420
2020/08/18 14:07:38	Benzie	Total	2574	144883
2020/08/18 14:07:38	Berrien	Diagnostic	44740	291654
2020/08/18 14:07:38	Berrien	Serology	1612	10508
2020/08/18 14:07:38	Berrien	Total	46352	302162
2020/08/18 14:07:38	Branch	Diagnostic	5239	120390
2020/08/18 14:07:38	Branch	Serology	130	2987
2020/08/18 14:07:38	Branch	Total	5369	123377
2020/08/18 14:07:38	Calhoun	Diagnostic	31813	237129
2020/08/18 14:07:38	Calhoun	Serology	627	4674
2020/08/18 14:07:38	Calhoun	Total	32440	241803
2020/08/18 14:07:38	Cass	Diagnostic	6769	130708
2020/08/18 14:07:38	Cass	Serology	202	3901
2020/08/18 14:07:38	Cass	Total	6971	134609
2020/08/18 14:07:38	Charlevoix	Diagnostic	4131	158016
2020/08/18 14:07:38	Charlevoix	Serology	307	11743
2020/08/18 14:07:38	Charlevoix	Total	4438	169759
2020/08/18 14:07:38	Cheboygan	Serology	164	6488
2020/08/18 14:07:38	Cheboygan	Diagnostic	2219	87791

2020/08/18 14:07:38	Cheboygan	Total	2383	94279
2020/08/18 14:07:38	Chippewa	Diagnostic	3688	98744
2020/08/18 14:07:38	Chippewa	Serology	79	2115
2020/08/18 14:07:38	Chippewa	Total	3767	100859
2020/08/18 14:07:38	Clare	Diagnostic	3421	110533
2020/08/18 14:07:38	Clare	Serology	200	6462
2020/08/18 14:07:38	Clare	Total	3621	116995
2020/08/18 14:07:38	Clinton	Diagnostic	12344	155085
2020/08/18 14:07:38	Clinton	Serology	2300	28896
2020/08/18 14:07:38	Clinton	Total	14644	183981
2020/08/18 14:07:38	Correctional	Diagnostic	64679	
2020/08/18 14:07:38	Correctional	Serology	10039	
2020/08/18 14:07:38	Correctional	Total	74718	
2020/08/18 14:07:38	Crawford	Diagnostic	1918	136717
2020/08/18 14:07:38	Crawford	Serology	49	3493
2020/08/18 14:07:38	Crawford	Total	1967	140210
2020/08/18 14:07:38	Delta	Diagnostic	6239	174352
2020/08/18 14:07:38	Delta	Serology	208	5813
2020/08/18 14:07:38	Delta	Total	6447	180164
2020/08/18 14:07:38	Detroit City	Diagnostic	200138	307997
2020/08/18 14:07:38	Detroit City	Serology	11892	18301
2020/08/18 14:07:38	Detroit City	Total	212030	326298
2020/08/18 14:07:38	Dickinson	Diagnostic	2814	111494
2020/08/18 14:07:38	Dickinson	Serology	67	2655
2020/08/18 14:07:38	Dickinson	Total	2881	114149
2020/08/18 14:07:38	Eaton	Diagnostic	26416	239562
2020/08/18 14:07:38	Eaton	Serology	3485	31605
2020/08/18 14:07:38	Eaton	Total	29901	271167
2020/08/18 14:07:38	Emmet	Serology	723	21637
2020/08/18 14:07:38	Emmet	Diagnostic	4949	148107
2020/08/18 14:07:38	Emmet	Total	5672	169744
2020/08/18 14:07:38	Genesee	Diagnostic	64783	159638
2020/08/18 14:07:38	Genesee	Serology	9302	22922
2020/08/18 14:07:38	Genesee	Total	74085	182559
2020/08/18 14:07:38	Gladwin	Diagnostic	3713	145900
2020/08/18 14:07:38	Gladwin	Serology	120	4715
2020/08/18 14:07:38	Gladwin	Total	3833	150615
2020/08/18 14:07:38	Gogebic	Diagnostic	4331	309911
2020/08/18 14:07:38	Gogebic	Serology	33	2361
2020/08/18 14:07:38	Gogebic	Total	4364	312272
2020/08/18 14:07:38	Grand Traverse	Diagnostic	15509	166606
2020/08/18 14:07:38	Grand Traverse	Serology	373	4007
2020/08/18 14:07:38	Grand Traverse	Total	15882	170613
2020/08/18 14:07:38	Gratiot	Serology	321	7885
2020/08/18 14:07:38	Gratiot	Diagnostic	8858	217582
2020/08/18 14:07:38	Gratiot	Total	9179	225467
2020/08/18 14:07:38	Hillsdale	Diagnostic	7389	162022
2020/08/18 14:07:38	Hillsdale	Serology	234	5131
2020/08/18 14:07:38	Hillsdale	Total	7623	167153
2020/08/18 14:07:38	Houghton	Diagnostic	5222	146340

2020/08/18 14:07:38	Houghton	Serology	78	2186
2020/08/18 14:07:38	Houghton	Total	5300	148526
2020/08/18 14:07:38	Huron	Serology	229	7392
2020/08/18 14:07:38	Huron	Diagnostic	6246	201607
2020/08/18 14:07:38	Huron	Total	6475	208999
2020/08/18 14:07:38	Ingham	Diagnostic	73345	250833
2020/08/18 14:07:38	Ingham	Serology	11663	39886
2020/08/18 14:07:38	Ingham	Total	85008	290719
2020/08/18 14:07:38	Ionia	Serology	886	13695
2020/08/18 14:07:38	Ionia	Diagnostic	13091	202343
2020/08/18 14:07:38	Ionia	Total	13977	216038
2020/08/18 14:07:38	Iosco	Diagnostic	4864	193577
2020/08/18 14:07:38	Iosco	Serology	117	4656
2020/08/18 14:07:38	Iosco	Total	4981	198233
2020/08/18 14:07:38	Iron	Diagnostic	3141	283842
2020/08/18 14:07:38	Iron	Serology	16	1446
2020/08/18 14:07:38	Iron	Total	3157	285288
2020/08/18 14:07:38	Isabella	Diagnostic	7644	109400
2020/08/18 14:07:38	Isabella	Serology	419	5997
2020/08/18 14:07:38	Isabella	Total	8063	115397
2020/08/18 14:07:38	Jackson	Diagnostic	39903	251738
2020/08/18 14:07:38	Jackson	Serology	1213	7653
2020/08/18 14:07:38	Jackson	Total	41116	259391
2020/08/18 14:07:38	Kalamazoo	Serology	2110	7960
2020/08/18 14:07:38	Kalamazoo	Diagnostic	52193	196906
2020/08/18 14:07:38	Kalamazoo	Total	54303	204866
2020/08/18 14:07:38	Kalkaska	Diagnostic	3706	205455
2020/08/18 14:07:38	Kalkaska	Serology	33	1829
2020/08/18 14:07:38	Kalkaska	Total	3739	207285
2020/08/18 14:07:38	Kent	Serology	10952	16671
2020/08/18 14:07:38	Kent	Diagnostic	166228	253028
2020/08/18 14:07:38	Kent	Total	177180	269699
2020/08/18 14:07:38	Keweenaw	Diagnostic	323	152647
2020/08/18 14:07:38	Keweenaw	Serology	9	4253
2020/08/18 14:07:38	Keweenaw	Total	332	156900
2020/08/18 14:07:38	Lake	Diagnostic	2452	206867
2020/08/18 14:07:38	Lake	Serology	83	7002
2020/08/18 14:07:38	Lake	Total	2535	213870
2020/08/18 14:07:38	Lapeer	Diagnostic	11260	128529
2020/08/18 14:07:38	Lapeer	Serology	1403	16015
2020/08/18 14:07:38	Lapeer	Total	12663	144543
2020/08/18 14:07:38	Leelanau	Diagnostic	2460	113046
2020/08/18 14:07:38	Leelanau	Serology	81	3722
2020/08/18 14:07:38	Leelanau	Total	2541	116769
2020/08/18 14:07:38	Lenawee	Diagnostic	15144	153823
2020/08/18 14:07:38	Lenawee	Serology	646	6562
2020/08/18 14:07:38	Lenawee	Total	15790	160384
2020/08/18 14:07:38	Livingston	Diagnostic	35989	187448
2020/08/18 14:07:38	Livingston	Serology	3874	20178
2020/08/18 14:07:38	Livingston	Total	39863	207625

2020/08/18 14:07:38	Luce	Diagnostic	461	74009
2020/08/18 14:07:38	Luce	Serology	15	2408
2020/08/18 14:07:38	Luce	Total	476	76417
2020/08/18 14:07:38	Mackinac	Diagnostic	1150	106491
2020/08/18 14:07:38	Mackinac	Serology	41	3797
2020/08/18 14:07:38	Mackinac	Total	1191	110288
2020/08/18 14:07:38	Macomb	Serology	24790	28365
2020/08/18 14:07:38	Macomb	Diagnostic	163552	187136
2020/08/18 14:07:38	Macomb	Total	188342	215501
2020/08/18 14:07:38	Manistee	Serology	109	4438
2020/08/18 14:07:38	Manistee	Diagnostic	2944	119879
2020/08/18 14:07:38	Manistee	Total	3053	124318
2020/08/18 14:07:38	Marquette	Serology	849	12729
2020/08/18 14:07:38	Marquette	Diagnostic	21212	318026
2020/08/18 14:07:38	Marquette	Total	22061	330755
2020/08/18 14:07:38	Mason	Diagnostic	6930	237785
2020/08/18 14:07:38	Mason	Serology	220	7549
2020/08/18 14:07:38	Mason	Total	7150	245334
2020/08/18 14:07:38	Mecosta	Serology	260	5983
2020/08/18 14:07:38	Mecosta	Diagnostic	7413	170598
2020/08/18 14:07:38	Mecosta	Total	7673	176582
2020/08/18 14:07:38	Menominee	Diagnostic	2560	112379
2020/08/18 14:07:38	Menominee	Serology	37	1624
2020/08/18 14:07:38	Menominee	Total	2597	114004
2020/08/18 14:07:38	Midland	Diagnostic	9624	115734
2020/08/18 14:07:38	Midland	Serology	723	8695
2020/08/18 14:07:38	Midland	Total	10347	124429
2020/08/18 14:07:38	Missaukee	Diagnostic	2018	133483
2020/08/18 14:07:38	Missaukee	Serology	61	4035
2020/08/18 14:07:38	Missaukee	Total	2079	137518
2020/08/18 14:07:38	Monroe	Serology	2281	15156
2020/08/18 14:07:38	Monroe	Diagnostic	22899	152153
2020/08/18 14:07:38	Monroe	Total	25180	167309
2020/08/18 14:07:38	Montcalm	Serology	679	10628
2020/08/18 14:07:38	Montcalm	Diagnostic	13654	213718
2020/08/18 14:07:38	Montcalm	Total	14333	224346
2020/08/18 14:07:38	Montmorency	Diagnostic	912	97770
2020/08/18 14:07:38	Montmorency	Serology	74	7933
2020/08/18 14:07:38	Montmorency	Total	986	105703
2020/08/18 14:07:38	Muskegon	Diagnostic	46080	265490
2020/08/18 14:07:38	Muskegon	Serology	971	5594
2020/08/18 14:07:38	Muskegon	Total	47051	271084
2020/08/18 14:07:38	Newaygo	Serology	417	8514
2020/08/18 14:07:38	Newaygo	Diagnostic	9815	200388
2020/08/18 14:07:38	Newaygo	Total	10232	208902
2020/08/18 14:07:38	Oakland	Serology	53976	42920
2020/08/18 14:07:38	Oakland	Diagnostic	247266	196620
2020/08/18 14:07:38	Oakland	Total	301242	239540
2020/08/18 14:07:38	Oceana	Diagnostic	8145	307742
2020/08/18 14:07:38	Oceana	Serology	215	8123

2020/08/18 14:07:38	Oceana	Total	8360	315865
2020/08/18 14:07:38	Ogemaw	Diagnostic	2706	128876
2020/08/18 14:07:38	Ogemaw	Serology	83	3953
2020/08/18 14:07:38	Ogemaw	Total	2789	132828
2020/08/18 14:07:38	Ontonagon	Diagnostic	1526	266783
2020/08/18 14:07:38	Ontonagon	Serology	11	1923
2020/08/18 14:07:38	Ontonagon	Total	1537	268706
2020/08/18 14:07:38	Osceola	Serology	124	5286
2020/08/18 14:07:38	Osceola	Diagnostic	5523	235422
2020/08/18 14:07:38	Osceola	Total	5647	240708
2020/08/18 14:07:38	Oscoda	Diagnostic	847	102779
2020/08/18 14:07:38	Oscoda	Serology	14	1699
2020/08/18 14:07:38	Oscoda	Total	861	104478
2020/08/18 14:07:38	Otsego	Diagnostic	2532	102643
2020/08/18 14:07:38	Otsego	Serology	224	9081
2020/08/18 14:07:38	Otsego	Total	2756	111724
2020/08/18 14:07:38	Ottawa	Diagnostic	65905	225834
2020/08/18 14:07:38	Ottawa	Serology	3211	11003
2020/08/18 14:07:38	Ottawa	Total	69116	236837
2020/08/18 14:07:38	Presque Isle	Serology	105	8339
2020/08/18 14:07:38	Presque Isle	Diagnostic	1119	88866
2020/08/18 14:07:38	Presque Isle	Total	1224	97205
2020/08/18 14:07:38	Roscommon	Serology	235	9784
2020/08/18 14:07:38	Roscommon	Diagnostic	3506	145968
2020/08/18 14:07:38	Roscommon	Total	3741	155752
2020/08/18 14:07:38	Saginaw	Diagnostic	50649	265820
2020/08/18 14:07:38	Saginaw	Serology	1088	5710
2020/08/18 14:07:38	Saginaw	Total	51737	271530
2020/08/18 14:07:38	Sanilac	Diagnostic	7562	183677
2020/08/18 14:07:38	Sanilac	Serology	407	9886
2020/08/18 14:07:38	Sanilac	Total	7969	193563
2020/08/18 14:07:38	Schoolcraft	Diagnostic	687	84878
2020/08/18 14:07:38	Schoolcraft	Serology	33	4077
2020/08/18 14:07:38	Schoolcraft	Total	720	88955
2020/08/18 14:07:38	Shiawassee	Serology	1278	18760
2020/08/18 14:07:38	Shiawassee	Diagnostic	10862	159449
2020/08/18 14:07:38	Shiawassee	Total	12140	178210
2020/08/18 14:07:38	St Clair	Diagnostic	22419	140887
2020/08/18 14:07:38	St Clair	Serology	3560	22372
2020/08/18 14:07:38	St Clair	Total	25979	163259
2020/08/18 14:07:38	St Joseph	Diagnostic	11641	190949
2020/08/18 14:07:38	St Joseph	Serology	482	7906
2020/08/18 14:07:38	St Joseph	Total	12123	198855
2020/08/18 14:07:38	Tuscola	Serology	452	8652
2020/08/18 14:07:38	Tuscola	Diagnostic	13239	253402
2020/08/18 14:07:38	Tuscola	Total	13691	262054
2020/08/18 14:07:38	Unknown	Diagnostic	202332	
2020/08/18 14:07:38	Unknown	Serology	19410	
2020/08/18 14:07:38	Unknown	Total	221742	
2020/08/18 14:07:38	Van Buren	Diagnostic	17701	233902

2020/08/18 14:07:38	Van Buren	Serology	438	5788
2020/08/18 14:07:38	Van Buren	Total	18139	239690
2020/08/18 14:07:38	Washtenaw	Serology	8335	22674
2020/08/18 14:07:38	Washtenaw	Diagnostic	90194	245358
2020/08/18 14:07:38	Washtenaw	Total	98529	268032
2020/08/18 14:07:38	Wayne	Serology	35487	32149
2020/08/18 14:07:38	Wayne	Diagnostic	269816	244440
2020/08/18 14:07:38	Wayne	Total	305303	276590
2020/08/18 14:07:38	Wexford	Diagnostic	5525	164283
2020/08/18 14:07:38	Wexford	Serology	109	3241
2020/08/18 14:07:38	Wexford	Total	5634	167524

# PUBLIC USE DATASETS

## Diagnostic Tests by Result and County

### README

Data include diagnostic tests for COVID-19 by date and county.

Diagnostic tests are used to find current infection and look for genes or proteins from the severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2), the virus that causes COVID-19. These tests, which are performed as nasal swabs, include: Nucleic acid amplification test/real-time polymerase chain reaction (NAAT/RT-PCR) test and rapid virus antigen detection point of care (POC) tests.

Correctional includes state and federal prisons and county and city detection facilities. Testing data represents total tests performed, not individuals tested. A single individual may have more than one test completed.

The total number of positive tests may exceed the number of confirmed cases due to 1) a single individual may have more than one test performed; 2) MDHHS may receive data on positive tests in advance of a local health department classifying an individual as a confirmed or probable case, and 3) although efforts have been made to deduplicate testing data, some duplication may occur.

# DIAGNOSTIC TESTS BY RESULT AND COUNTY 2020-08-18

MessageDate	COUNTY	Negative	Positive	Total
8/17/2020	Alcona	7	0	7
8/17/2020	Alger	18	0	18
8/17/2020	Allegan	281	0	281
8/17/2020	Alpena	3	0	3
8/17/2020	Antrim	42	0	42
8/17/2020	Arenac	27	0	27
8/17/2020	Barry	103	0	103
8/17/2020	Bay	150	7	157
8/17/2020	Benzie	57	1	58
8/17/2020	Berrien	456	11	467
8/17/2020	Branch	47	1	48
8/17/2020	Calhoun	454	2	456
8/17/2020	Cass	49	3	52
8/17/2020	Charlevoix	63	2	65
8/17/2020	Cheboygan	12	0	12
8/17/2020	Chippewa	16	0	16
8/17/2020	Clare	36	3	39
8/17/2020	Clinton	74	1	75
8/17/2020	Correctional	38	0	38
8/17/2020	Crawford	14	0	14
8/17/2020	Delta	56	1	57
8/17/2020	Detroit City	2019	45	2064
8/17/2020	Dickinson	22	1	23
8/17/2020	Eaton	180	2	182
8/17/2020	Emmet	107	3	110
8/17/2020	Genesee	645	14	659
8/17/2020	Gladwin	19	1	20
8/17/2020	Gogebic	126	2	128
8/17/2020	Grand Traverse	302	6	308
8/17/2020	Gratiot	51	0	51
8/17/2020	Hillsdale	43	1	44
8/17/2020	Houghton	8	0	8
8/17/2020	Huron	29	1	30
8/17/2020	Ingham	392	5	397
8/17/2020	Ionia	141	0	141
8/17/2020	Iosco	14	0	14
8/17/2020	Iron	4	0	4
8/17/2020	Isabella	207	1	208
8/17/2020	Jackson	392	2	394
8/17/2020	Kalamazoo	477	10	487
8/17/2020	Kalkaska	106	0	106
8/17/2020	Kent	1332	27	1359
8/17/2020	Keweenaw	1	0	1
8/17/2020	Lake	24	0	24
8/17/2020	Lapeer	193	4	197
8/17/2020	Leelanau	26	1	27
8/17/2020	Lenawee	177	1	178



8/17/2020	Livingston	341	16	357
8/17/2020	Luce	3	0	3
8/17/2020	Mackinac	4	0	4
8/17/2020	Macomb	1443	101	1544
8/17/2020	Manistee	33	0	33
8/17/2020	Marquette	188	0	188
8/17/2020	Mason	69	0	69
8/17/2020	Mecosta	75	0	75
8/17/2020	Menominee	20	3	23
8/17/2020	Midland	77	0	77
8/17/2020	Missaukee	13	1	14
8/17/2020	Monroe	323	12	335
8/17/2020	Montcalm	135	4	139
8/17/2020	Montmorency	9	0	9
8/17/2020	Muskegon	844	24	868
8/17/2020	Newaygo	123	2	125
8/17/2020	Oakland	2205	83	2288
8/17/2020	Oceana	82	1	83
8/17/2020	Ogemaw	39	1	40
8/17/2020	Ontonagon	8	1	9
8/17/2020	Osceola	55	0	55
8/17/2020	Oscoda	5	2	7
8/17/2020	Otsego	24	0	24
8/17/2020	Ottawa	533	9	542
8/17/2020	Presque Isle	4	0	4
8/17/2020	Roscommon	39	0	39
8/17/2020	Saginaw	448	18	466
8/17/2020	Sanilac	127	1	128
8/17/2020	Schoolcraft	1	0	1
8/17/2020	Shiawassee	74	6	80
8/17/2020	St Clair	250	0	250
8/17/2020	St Joseph	103	3	106
8/17/2020	Tuscola	85	1	86
8/17/2020	Unknown	1437	24	1461
8/17/2020	Van Buren	149	6	155
8/17/2020	Washtenaw	824	6	830
8/17/2020	Wayne	2381	118	2499
8/17/2020	Wexford	46	1	47